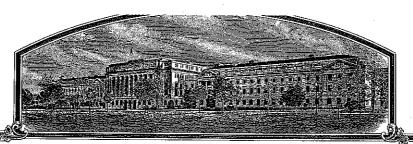
No.



200500153

HHE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Hioneer Hi-Bred International, Inc.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'26R22'

In Jestimone Wherever, I have hereunto set my hand and caused the seal of the Hunt Unriety Frotection Office to be affixed at the City of Washington, D.C. this sixth day of March, in the year two thousand and six.

Attast:

and Second

Plant Varioty Protection Office Agricultural Marketing Servic tary of Agriculture

CAPACITY OR TITLE

2/17/05

(See reverse for instructions and information collection burden statement)

Wheat Research Director

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

- 19a, Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22, CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

19A. Exhibit A. Origin and Breeding History of Pioneer Wheat Cultivar XW03X.

26/222

7/28/06

Pioneer® experimental cultivar XW03X is a soft red winter wheat (*Triticum aestivum* L.) developed by Pioneer Hi-Bred International, Inc.. Using a modified pedigree selection breeding method, XW03X was derived from the three-parent cross:

25R57 sib./WBF0337A1//2552

WBF0337A1 was an experimental line derived from the cross: 2555 sib./ FL74265-10-A2-B/W1074B. The cultivar FL74265-10-A2-B was an experimental line from the University of Florida derived from the cross: Predgozaia/3/Fulbarn//Blueboyll/Coker 68-8. The cultivar W1074B was an experimental line derived from the cross: W3017/W747. The cultivar W3017 was and experimental line derived from the cross: Coker 68-16/MO W7140. The cultivar MO W7140 was an experimental line from the University of Missouri. The cultivar W747 was an experimental line derived from the cross: GA 80/Timwin. The detailed parentage of XW03X is:

25R57 sib/6/2555 sib/4/ Predgozaia/3/Fulbarn//BlueboyII/ Coker 68-8/5/ Coker 68-16/MO W7140//GA 80/Timwin /7/2552

The single cross 25R57 sib./WBF0337A1 was made in the 1993 spring greenhouse cycle and was designated W942460. During the 1993 fall greenhouse cycle the F_1 , W942460, was crossed with 2552 and the final cross was designated W940537. The subsequent breeding history of XW03X is described below.

<u>Year</u>	Generation	
1993	Final cross	
1994	F ₁	F ₁ grown in transplant nursery at Windfall IN.
1994-95	F ₂	Bulk populations grown at Windfall and Ft. Branch, IN. Individual spike selections made at both locations.
1995-96	F ₃	Headrows from F_2 selections grown at Windfall and Ft. Branch, IN. Selected rows cut and threshed individually. This selection was made at Ft. Branch, IN.
1996-97	F ₄	A three row X 3-meter observation plot was planted at Windfall and Ft. Branch, IN. A meter section of the center row was harvested from the selected plot and threshed in bulk.
1997-98	F ₅	A seven row X 3-meter plot was planted at Windfall and Ft. Branch, IN. Fifty spikes were harvested from the selected plot and threshed individually.
1998-99	F ₆	Twenty headrows of the F ₅ selection were grown at Windfall and Ft. Branch, IN. Selected rows were cut and

		IN.
1999-2000	F ₇	Preliminary yield testing of an $F_{\rm 5}$ selection from an $F_{\rm 6}$ headrow. This selection designated W940537E1.
2000-01	F ₈	Advanced yield testing of W940537E1. 200 individual spikes were harvested from a small bulk increase.
2001-02	F ₉	Elite yield testing of W940537E1. 200 purification headrows planted, off-type rows destroyed prior to maturity. Approximately 100 of the remaining, inside rows were individually cut and threshed. Two spikes were taken from each harvested row.
2002-03	F ₁₀	Elite yield testing continued of W940537E1. Seed from purification headrows planted in individual progeny plots which surrounded 200 headrows. Off-type plots and headrows were destroyed prior to harvest. Equal numbers of spikes were harvested from the remaining progeny plots for a total of 1000 individual spikes. 110 headrows were harvested. The progeny plots were harvested in bulk, which constitutes Breeder Seed. Bulk seed, headrow bulks, and individual spikes were turned over to Pioneer's Supply Management, Parent Wheat Seed group.
2003-04	F ₁₀	Elite yield testing continued, line designated YW03R. Seed increase continued by Pioneer Parent Wheat Seed Group.
2004-05	F ₁₁	Elite yield testing continues, line designated XW03X. Seed increase continues by Pioneer Parent Wheat Seed Group.

threshed individually. This selection was made at Windfall,

Decision to release XW03X will be made in August 2005, at which time a commercial code will be assigned.

1/28/06

The cultivar-XW03X was bred and selected for any and all of the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.

XW03X has been shown to be uniform and stable since the 7th generation, or for the last 5 generations. XW03X has shown no variants other than what would normally be expected due to environment.

19B. Exhibit B. Statement of Distinctness

MAH 2006

`26 R22 '

★₩03X is most similar to Pioneer variety 2552 but with the following distinguishing characteristics:

- 1. The stem waxy bloom of XW03X is present, while that of 2552 is absent.
- 2. The plant height of XW03X averages 2.5 cm taller than 2552 (Highly significant at < 0.01 probability level. See table below for comparison).
- 3. The heading date of XW03X averages 1.1 days earlier than 2552 (Highly significant at < 0.01 probability level. See table below for comparison).

Paired comparisons of XW03X during the period 2002-2004.

Variety	Plant Height	Heading Date
	cm	After Jan 1
XW03X	95.5	117.2
2552	93.0	118.3
Locations	23	21
Reps.	44	40
Prob.	0.000	0.000

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Triticum spp.)

			······································		
NAME OF APPLICANT(S)				FOR OFFICIAL USE ONLY	++++
Pioneer Hi-Bred Inter	national, Inc.			PVPO NUMBER	
ADDRESS (Street and No. or RD No.,	City, State, and Zip Code)			2005	00157
Crop Genetics Resea	rch & Development			VARIETY NAME	n n i n wh
Wheat Research 3850 N. 100 E.				,261	222 2/28/06
Windfall, IN 46076-9	389			TEMPORARY OR EXPERIMENT	
				<u> </u>	/03X
PLEASE READ ALL INSTI	RUCTIONS CAREFULLY: Plac	e the appropriate number that	describes the varietal ch	naracter of this variety in the bo	res below.
minimum of 100 plants. Com	g. 0 9 9 or 0 9) when no parative data should be determined	l from varieties entered in the	same trial. Royal Horti		
to determine plant colors; desig	gnate system used: Munsell Co	<u>lor Charts for Plant Ti</u>	ssues	k of response may delay progre	
		riease answer an question	ons for your variety, fac	k of response may delay progre	ss of your approactor.
1. KIND:					
1	1=Common	2=Durum	3=Club	4=Other	(SPECIFY):
					· · · · · · · · · · · · · · · · · · ·
2. VERNALIZATION	Ň:				
2	1=Spring	2=Winter	3=Other (S	PECIFY):	
3. COLEOPTILE AN	THOCYANIN:			•	24
	1=Absent	2=Present			
2		# X 1 0 0 0 1 1 1			
4. JUVENILE PLAN	Г GROWTH:				
2	1=Prostrate	2=Semi-erect	3=Erect		
5. PLANT COLOR (boot stage):				
	1 = Yellow-Green	2 = Green	3 = Blue-Green	een	•
2					
6. FLAG LEAF (boot	stage):				
[-
1	1 = Erect	2 = Recurved	2	1 = Not Twisted	2 = Twisted
7. EAR EMERGENC	E:				
	Number of Days Earlie	r Than	2		
* 1	amber of Days Barne				
 					
*	Number of Days Later	I nan			<u></u>
•					10

8. ANTHER COLOR	R:	
1	1 = Yellow	2 = Purple
9. PLANT HEIGHT	(from soil to top of head, excludin	g awns):
3	cm Taller Than 25	*
	cm Shorter Than	*
		* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial
10. STEM:		
A. ANTHOO	CYANIN	D. INTERNODE (SPECIFY NUMBER) 5
1 1= Al	bsent 2=Present	1 1= Hollow 2=Semi-solid 3=Solid
B. WAXY B	LOOM	E. PEDUNCLE
2 1=Ab	sent 2=Present	2 1=Absent 2=Present
C. HAIRINE	ESS (last internode of rachis)	cm Length
2 1=Ab	sent 2=Present	
11. HEAD (at Matur	rity):	
A. DENSITY	7	C. CURVATURE
2 1=Lax 3= De		$\boxed{2} 1 = \text{Erect} \qquad 2 = \text{Inclined} \qquad 3 = \text{Recurved}$
B. SHAPE		D. AWNEDNESS
	apering 2= Strap lavate 4 = Other (SPECIFY):	1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned
12. GLUMES (at Ma	turity):	
A. COLOR		C. BEAK
2 1 = W	hite 2 = Tan	3 = Obtuse 2 = Acute 3 = Acuminate
3 = Ot	ther (SPECIFY) :	
B. SHOULDI	ER	D. LENGTH
2 1 = W3 3 = R0 5 = Ele	ounded 4 = Square	2

			22 6 4 6 6 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
12. GLUMI	ES (at Maturity) Continued:	"		
E. '	WIDTH		•	,
3	1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)	n)		. ***
13. SEED:				
A.	SHAPE	C. BRU	JSH	
1	1 = Ovate 2 = Oval 3 = Elliptical	2	1=Short 2=Medium 3=Long	
		1	1 = Not Collared 2 = Collared	
В. (СНЕЕК	D. CRE	EASE	
1	1=Rounded 2=Angular		1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel	
		ر کا	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel	
Е. С	Color	G. PHE	ENOL REACTION (see instructions):	
3	1=White 2= Amber 3= Red 4= OTHER (Specify)	<u> </u> 4	1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black	
F. 7	TEXTURE			
2	1=Hard 2=Soft			
14. DISEAS	E: (0=Not Tested; 1=Susceptible; 2=Resis	stant; 3:	=Intermediate; 4=Tolerant)	
	PLEASE INDICATE THE SPECI	FIC RAC	E OR STRAIN TESTED	
0	Stem Rust (Puccinia graminis f. sp. tritici)	3	Leaf Rust (Puccinia recondita f. sp. tritici) Field races	
2	Stripe Rust (Puccinia striiformis) Field races	0	Loose Smut (Ustilago tritici)	
3	Tan Spot (Pyrenophora tritici-repentis) Field races	0	Flag Smut (Urocystis agropyri)	
0	Halo Spot (Selenophoma donacis)	0	Common Bunt (Tilletia tritici or T. laevis)	
3	Septoria nodorum (Glume Blotch) Field races	0	Dwarf Bunt (Tilletia controversa)	
0	Septoria avenae (Speckled Leaf Disease)	0	Karnal Bunt (Tilletia indica)	
3	Septoria tritici (Speckled Leaf Blotch)	3	Powdery Mildew (Erysiphe graminis f. sp. tritici) Field races	
1	Scab (Fusarium spp.)	0 '	'Snow Molds"	

Field races

14.	Disease	e (Continued)	(0=Not Tested;	1=Susceptible;	2=F	Resistant;	3=Intermediate;	4=Tolerant)
			PLEASE IN	DICATE THE S	PECIF	IC RAC	E OR STRAIN TEST	ED
	0	"Black Point" (Kernel Smudge)		0	Commo <i>Bipolari</i>	n Root Rot <i>(Fusarium</i> s spp. <i>)</i>	a, Cochliobolus and
	0	Barley Yellow D	Owarf Virus (BYD)	v) [0	Rhizocte	onia Root Rot <i>(Rhizod</i>	ctonia solani)
	3	Soilborne Mosai Field races	ic Virus (SBMV)		0	Black C	haff <i>(Xanthomonas ca</i>	ampestris pv. translucens)
	3	Wheat Yellow (S	Spindle Streak) Mo	saic Virus	0	Bacteria syringae	l Leaf Blight <i>(Pseudo</i>)	monas syringae pv.
	0	Wheat Streak M	Iosaic Virus (WSM	IV)		Other (SPECIFY)	
		Other (SPECIF	Y)			Other (SPECIFY)	
		Other (SPECIF	Y)			Other (SPECIFY)	
		Other (SPECIF	Y)			Other (SPECIFY)	
15.	INSECT:	(0=Not Test	ed; 1=Susceptibl	e; 2=Resistan	t; 3=	=Interme	diate; 4=Tolerant)	
			PLEASE	SPECIFY BIOT	YPE (where ne	eded)	
	1	Hessian Fly (Ma Biotype E	ayetiola destructor)			Other (SPECIFY)	
	0	Stem Sawfly (Co	ephus spp.)			Other (SPECIFY)	
٠	0	Cereal Leaf Beet	tle <i>(Oulema melan</i> e	opa)		Other (S	SPECIFY)	
	0	Russian Aphid	(Diuraphis noxia			Other (S	SPECIFY)	
	0	Greenbug (Schi	zaphis graminum)		·	Other (S	SPECIFY)	
r	0	Aphids				Other (S	SPECIFY)	
				•				

19D. Exhibit D. Additional Description of the Variety

1. Yield and Agronomic information.

Preliminary yield testing of XW03X began in the 1999-2000 growing season and wide scale testing has been conducted from the 2000-01 growing season to the present. It has shown adaptation to the northern soft wheat regions based on tests conducted in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland and Ontario, Canada (Table 1).

2. Information on Milling and Baking Qualities.

XW03X has demonstrated acceptable soft winter wheat milling and baking qualities (Table 2).

Table 1. Paired comparisons of XW03X during the period 2002-2004.

Variety	Grain Yield	Test Weight	Plant Height	Heading Date	Straw	Leaf	Leaf	Powdery Mildew	Scab	Stripe Duct	SSMV	SBMV
,26R1Z	bu/ac	nq/qI	cm	After Jan 1	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@	1-9@
**************************************		56.2	95.5	117.2	4.1	5.0	5.6	6.0	5.8	8.6	6.3	6.5
2552	80.2	57.4	93.0	118.3	5.8	5.3	5.8	5.8	0.9	×.	6.5	6.3
Locations		42	23	21	33	12	9	2	5	5	2	~
Reps.		88	44	40	7	26	12	4	10	13	۱ 4	ى د
Prob.	_	0.000	0.000	0.000	0.109	0.558	0.530	795	0.688	0.189	0.874	0.808

XW03X 89.6		94.7	123.4	2.6	5.0	5.2	0.9	4.7	9.8	6.3	6.3
	54.9	89.2	124.1	7.9	2.6	6.9	5.9	5.8	7.3	8.9	5.7
	88	32	30	9	12	12	5	13	5	2	9
Reps. 185	188	99	64	15	26	24	10	26	13	4	12
0	0.000	0.000	0.003	0.076	0.001	0.000	0.778	0.000	0.097	0.795	0.082

XW03X	9.68	55.8	94.7	123.4	5.6	5.0	5.2	0.9	4.7	9.8	6.3	6.3
26R15	88.1	55.9	92.5	123.6	7.5	8.4	5.3	7.3	6.3	7.2	2. 3.	35
Locations	88	88	32	30	9	12	12	5	13	5	2	9
Reps.	186	187	99	64	15	26	24	10	26	13	4	12
Prob.	0.077	0.356	0.001	0.202	0.095	0000	0.884	0.025	0000	0.045	0.500	0.14

@ Scale of 1-9 where 9= excellent or resistant, 1= poor or susceptible.

SSMV = Wheat Spindle Streak Mosaic Virus SBMV = Soil-borne Mosaic Virus

Data in above table collected at locations in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland, Virginia, North Carolina, South Carolina, Georgia and Ontario, Canada.

Table 2. Average Soft wheat quality data, 2000-2004.

Variety	Flour Yield	Break Flour Yield	Flour Protein	AWRC	Lactic Acid SRC	Cookie Diameter
,26.022	%	%	%	%	%	СШ
KWU3X	73.8	46.1	7.5	54.3	98.8	18.4
Years(reps)	3(7)	3(7)	3(7)	2(4)	2(5)	2(2)
2552	72.1	43.5	9.7	55.3	107.4	17.5
Years(reps)	4(10)	4(10)	4(10)	3(7)	2(6)	3(3)
25R47	72.5	46.0	7.8	54.7	98.0	19.6
Years(reps)	4(16)	4(16)	4(16)	3(11)	2(10)	3(4)
26R15	71.9	43.0	8.9	55.6	115.5	18.8
Years(reps)	4(12)	4(12)	4(12)	3(7)	2(8)	3(4)

AWRC = Alkaline Water Retention Capacity.

Lactic Acid SRC = Lactic Acid Solvent Retention Capacity

Quality data collected at Pioneer in Johnston, IA and the USDA-ARS Soft Wheat Quality Lab in Wooster, OH.

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions. F	ORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to detectificate is to be issued (7 U.S.C. 24 confidential until the certificate is issued.	(21). The information is held
STATEMENT OF THE BASIS OF OWNERSHIP	2 TEMPORARY DESIGNATION	3. VARIETY NAME
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc.	XW03X	126R2Z 2/28/0
	X ************************************	126R22 2/28/0
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
Crop Genetics Research & Development	(765) 945-7906	(765) 945-8313
Wheat Research	(700) 040 7000	, ,
3850 N. 100 E.	7. PVPO NUMBER	<u> </u>
Windfall, IN 46076-9389		e company of the contract of t
	200	500153
O Floor the applicant come II wights to the control O Read, on 9MH in the		
8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block, it no, please expla	m. X 723
9. Is the applicant (individual or company) a U.S. national or a U.S. b	ased company? If no, give name of co	ountry. X YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
To, is the applicant the original owner?		
a. If the original rights to variety were owned by individual(s), is (() the contribution of the block block on	C/a\la
b. If the original rights to variety were owned by a company(ies)	NO If no, give name of count , is (are) the original owner(s) a U.S. ba NO If no, give name of countr	sed company?
11. Additional explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the re	everse for extra space if needed):
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals or		
2. If the rights to the variety are owned by the company which employnationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection	/ must be U.S. based, owned by to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	neet one of the above criteria.
The original breeder/owner may be the individual or company who di	rected the final breeding. See Section 4	11(a)(2) of the Plant Variety Protection

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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